COUNCIL REPORT

CITY OF MOUNTAIN VIEW

AGENDA: January 11, 2011

4.8

CATEGORY: Consent

DEPT.: Public Works

TITLE: Stevens Creek Trail: Sleeper Avenue to Dale/Heatherstone—Award Construction Contract and Related Actions

RECOMMENDATION

1. Award the construction contract for Stevens Creek Trail from Sleeper to Dale/Heatherstone, Construction, Project 10-42, to Gordon N. Ball of Alamo, California for the low bid price of $4,137,649.

2. Accept and appropriate an $800,000 State River Parkways grant to Stevens Creek Trail, Sleeper to Dale/Heatherstone, Construction, Project 10-42, and authorize the City Manager to execute a standard grant agreement with the State of California Natural Resources Agency. (Five votes required)

3. Transfer $245,233 from Project 10-42 to the Construction Tax/Real Property Conveyance Tax Fund and transfer $454,767 from Project 10-42 to the Open Space Acquisition Reserve. (Five votes required)

4. Authorize the City Manager to execute a contract amendment with the engineering design firm Mark Thomas & Company of San Jose, for a not-to-exceed amount of $40,672 from Stevens Creek Trail, Sleeper to Dale/Heatherstone, Design, Project 07-35.

5. Authorize the City Manager to execute a professional services agreement with Signet Testing Labs for construction testing services for a not-to-exceed amount of $88,440 from Stevens Creek Trail, Sleeper to Dale/Heatherstone, Construction, Project 10-42.

6. Approve the removal of two Heritage trees and the Urban Forestry Board recommended mitigation measure of 3:1 replacement with 15-gallon trees.

FISCAL IMPACT

Stevens Creek Trail, El Camino Real to Dale/Heatherstone—Design, Project 07-35, is funded with $1.2 million from the following sources:

Shoreline Community Fund	$ 485,000
Construction/Conveyance Tax Fund	415,000
Transportation Fund for Clean Air Grant	275,000
PG&E Easement Fee	25,000
Total Project Budget	$1,200,000

The current balance in Project 07-35 is $77,000, and there is sufficient funding for the recommended contract amendment with Mark Thomas & Company.

Stevens Creek Trail from Sleeper to Dale/Heatherstone, Construction, Project 10-42, is funded with $5 million from the following sources:

Stevens Creek Trail, Project 10-42

Shoreline Community Fund	$1,250,000
Park Land Fund	2,037,767
Open Space Acquisition Reserve	504,000
Construction/Conveyance Tax Fund	245,233
Transportation Development Act (TDA) Grant	418,000
Transportation Fund for Clean Air (TFCA) Grant	400,000
Santa Clara Valley Water District Trails Grant	145,000
Total Project Budget	$5,000,000

Based on the low bid from Gordon Ball, the current cost estimate is $4,969,000 which is within the project budget but leaves a project contingency of only $31,000.

The California Natural Resources Agency awarded an $800,000 State River Parkways Grant to the City for the Stevens Creek Trail construction. The recommended actions would allocate the $800,000 grant to the project, return $700,000 from the project to City funds ($245,233 to Construction/Conveyance Tax and $454,767 to the Open Space Acquisition Reserve) and increase the project contingency by $100,000. The additional project contingency would be used for unforeseen needs that may include additional coordination with regulatory agencies or Caltrans during construction, additional services from biologists or other professionals, or additional staff time should construction or project close-out take longer than anticipated. Any unused balance would be returned to various City funding sources upon project completion.

BACKGROUND AND ANALYSIS

On July 27, 2010, the Council approved the plans and specifications for Stevens Creek Trail from Sleeper Avenue Neighborhood Access Point over Highway 85 to Dale/Heatherstone, Project 10-42, and authorized staff to advertise the project after receipt of the Caltrans encroachment permit. In early November 2010, Caltrans issued the encroachment permit, which allowed the project to begin the four-week bid advertisement period.

On December 8, 2010, the City received four bids ranging from $4.14 million to $4.56 million. The lowest responsible bid is from Gordon N. Ball, Inc. of Alamo, California. The City has contracted with Gordon N. Ball to construct the Permanente Creek Trail pedestrian overcrossing over Highway 101. The bid summary is included as Attachment 1.

When Council approved the plans in July 2010, the Engineer's Estimate for construction was $4.05 million. Staff believes that the low bid was higher than this estimate for the following reasons:

- Additional stormwater reporting requirements were added to the specifications in response to Caltrans requirements.
- The concrete piles nearest the residences on Dale and Heatherstone Avenues were changed from driven to drilled to reduce the noise and vibration impacts on the residents.
- Additional landscaping was added to increase the likelihood that the City would receive the $800,000 River Parkways Grant. Additional information is provided later in this report.
- The July Engineer's Estimate mistakenly included a quantity of reinforcing steel (rebar) that was too low.

Based on the number and value of bids received, staff considers the low bid to be fair and reasonable. Based on the low bid, the estimated project cost is as follows:

Construction (including $350,000 construction contingency)	$4,137,650
Construction Inspection and Testing	190,000
Construction Support by Mark Thomas Engineers	147,000
Caltrans Inspection Fee	40,000
City Project Engineering and Management	35,000
CHP Assistance during Freeway Detour and Closure	25,000
PG&E Electrical Meter Service	20,000
Nursery Native Plant Growing Services	5,000
Bid Services and Plan Reproduction	5,000
Preparation of As-Built Drawings	23,000
Landscape Architect Services	38,000
City Administration (6.5 percent)	303,000
Subtotal (rounded)	$4,969,000
Project Contingency	31,000
CURRENT BUDGET	$5,000,000

The recommended construction contract includes a construction contingency of $350,000, which is approximately nine percent (9%) of the total of the bid items and is typical for a construction contract of this type. The construction contingency is an allowance used to pay the contractor for unforeseen expenses during construction. The "project contingency" is the unallocated project budget that could be used for unforeseen nonconstruction items which may include additional coordination with regulatory agencies or Caltrans during construction, additional services from biologists or other professionals, or additional staff time should construction or project close-out take longer than anticipated. Based on the current estimate, the project contingency is $31,000, which is less than one percent (1%) of the project budget and is very low for a project of this complexity. Staff recommends using a portion of the River Parkways grant to increase the project contingency by $100,000. Any unused portion of the project contingency at the end of the project would be returned to various City funds.

State and Federal Grants

On September 14, 2010, the California Natural Resources Agency announced that the City would receive an $800,000 grant under the (State Proposition 84) River Parkways Grant Program. The City is one of 31 agencies out of 125 applicants State-wide to receive this competitive State park grant. The goals of the River Parkways program include protecting

and restoring riparian and riverine habitat and providing important recreational, open space, wildlife and other benefits to communities in the State.

After review of the City's application and the project site by an evaluation team, State representatives indicated that the project should include additional native plantings to enhance the riparian restoration and wildlife habitat aspect of the project and interpretive boards for trail users to enhance the project's recreational and educational value. Additional landscaping was added to the project, including additional trees and shrubs to buffer the bridge structure from the creek, and two interpretive boards are planned that are similar to others along the trail and at Shoreline. Though these elements add a cost of about $100,000 to the project, they also add value to the trail and were important to remain competitive for the $800,000 grant. Staff recommends accepting the grant and authorizing the City Manager to execute a standard agreement with the State Resources Agency (Attachment 2).

On July 27, 2010, the City Council discussed delaying the approval of plans and specifications due to the possibility of receiving a $4 million Federal earmark. The Stevens Creek Trail did not make the final U.S. House of Representatives' appropriations list for Fiscal Year 2011 funding. A future phase of Stevens Creek Trail beyond Dale/Heatherstone to Mountain View High School is still under consideration when Congress takes action to authorize the next Federal transportation bill in 2011 or 2012.

Design Services Contract—Additional Services

Mark Thomas Engineers prepared the plans for the project and incurred additional redesign expenses to address new requirements imposed by Caltrans. The additional services included the redesign of the pedestrian structure from a 10' to 12' wide structure, modifying the Dale/Heatherstone area to accommodate a wider pedestrian switchback structure and narrowing of the street, implementing new storm water discharge regulations that recently became effective State-wide, and architectural enhancements and pedestrian lighting on the bridge. The additional services are described in Mark Thomas Engineers' letter of December 10, 2010 and are valued at $40,672 (Attachment 3). Staff considers the scope and fee to be reasonable and recommends that Council approve a contract amendment to pay Mark Thomas for the services. The Stevens Creek Trail design budget, Project 07-35, has a balance of $77,000 which is sufficient to fund the amendment.

Agreement for Construction Testing Services

On November 29, 2010, staff received three proposals for special inspection and testing services. Staff recommends awarding a contract to Signet Testing Laboratory because they provided the most complete proposal at the lowest cost. The proposed contract amount of $88,440 is within the budget for special inspection and testing services (Attachment 4).

Removal of Additional Heritage Trees

Prior to constructing the pedestrian structure at Dale/Heatherstone, PG&E will need to relocate an overhead electrical service line from the west side of Dale/Heatherstone to the east side of the street. The alignment of the relocated electrical line will cross the path of two Heritage trees. PG&E's policy and a PUC regulation prohibit any tree from being within 15' of the new electrical line. On December 8, 2010, the Urban Forestry Board reviewed the project mitigation and recommended that City Council approve replacement of the two Heritage trees at a 3:1 ratio as part of the project. Although the Urban Forestry Board staff report (Attachment 5) recommended a 1:1 mitigation, the Urban Forestry Board approved a recommendation of a 3:1 mitigation. This action was necessary to be consistent with the project's mitigation monitoring program that was approved in 2004 as part of the Environmental Impact Report. The project includes the planting of 111 trees and over 1,600 shrubs.

Project Schedule

Construction is expected to start by late February 2011 and be open by December 2011.

PUBLIC NOTICING

Agenda posting. A public meeting was held on August 27, 2009 at the Palo Alto Medical Foundation (PAMF) and several notices were sent during project planning and design to residents and businesses in close proximity to the project. A second neighborhood meeting is scheduled to take place on January 21, 2011 at the PAMF. Notices of the project schedule and pile driving activities will be mailed prior to construction. Additional notices of the construction-related impacts will be provided to area residents and businesses during construction.

Prepared by:

Robert Kagiyama
Principal Civil Engineer

Approved by:

Michael A. Fuller
Public Works Director

Kevin C. Duggan
City Manager

RK/6/CAM
909-01-11-11M-E^

Attachments:
1. Bid Summary
2. River Parkways Grant Agreement
3. Mark Thomas & Company Fee Proposal
4. Signet Testing Services Fee Schedule
5. Urban Forestry Board Report

cc: Ms. Marilou Ayupan, Program Manager
Mark Thomas & Company
1960 Zanker Road
San Jose, CA 95112

Mr. Bruce Hill, Principal
Hill Associates
479 North Santa Cruz Avenue
Los Gatos, CA 95030-5300

Caltrans District 4
Attention Nick Salah, Regional Project Manager
P.O. Box 23660
Oakland, CA 94623-0660

Mr. Brad Juarros
The Natural Resources Agency
Bonds and Grants Unit
1416 Ninth Street, Suite 1311
Sacramento, CA 95814

Gordon N. Ball, Inc.
333 Camille Avenue
Alamo, CA 94507

Friends of Stevens Creek Trail

DE, SCE—Macaraeg, ACE—Chen, AE—Tran, POSM—Hurlburt, SAA—Kiner, SAA—Burgess, AA—Grimm, F/c

STEVENS CREEK TRAIL, SLEEPER NEIGHBORHOOD ACCESS POINT TO DALE AVENUE/HEATHERSTONE WAY, PROJECT 10-42

SUMMARY OF BIDS

BID DATE: DECEMBER 8, 2010

RANK	CONTRACTOR	BID PRICE
1	GORDON N. BALL, INC.	4,137,649.40
2	ROBERT A. BOTHMAN, INC.	4,252,570.00
3	R. M. HARRIS CO.	4,420,859.10
4	MCM CONSTRUCTION, INC.	4,555,555.00

STATE CONTRACTOR LICENSE: CURRENT

CITY BUSINESS LICENSE: NEED TO APPLY

CALIFORNIA natural resources AGENCY

January 6, 2011

Robert Kagiyama
Design Engineer
City of Mountain View
500 Castro Street
Mountain View, CA 94039

Dear Mr. Kagiyama,

Congratulations on receiving an award from the Proposition 84 California River Parkways Grant Program. The Natural Resources Agency is pleased to award a grant of $800,000 to the City of Mountain View for the Steven's Creek Trail Sleeper to Dale Heatherstone Project. We look forward to working with you in the coming months.

Please keep in mind that funding for project implementation, such as construction, is contingent upon full CEQA compliance. Agency staff will contact you within the next few weeks to begin developing your Grant Agreement. Should you have any questions in the interim, please do not hesitate to contact Brad Juarros, Grants Administrator, Bonds and Grants, at (916) 651-7584 or via e-mail at brad.juarros@resources.ca.gov.

Please coordinate any public announcements related to your project with our Assistant Director for Communications Clark Blanchard. Mr. Blanchard can be reached at (916) 651-7585 or via e-mail at clark.blanchard@resources.ca.gov.

By working together we can restore, preserve, and enhance California's natural resources in a way that allows them to be enjoyed by our citizens and communities for decades to come.

Sincerely,

Bryan Cash

1416 Ninth Street, Suite 1311, Sacramento, CA 95814 Ph. 916.653.5656 Fax 916.653.8102 http://resources.ca.gov

MARK THOMAS & COMPANY, INC.
Providing Engineering, Surveying and Planning Services

Prepared December 10, 2010

City of Mountain View
STEVENS CREEK TRAIL, REACH 4-SEGEMENT 2: PHASE II
STEVEN CREEK TRAIL PEDESTRIAN OVERCROSSING (POC) OVER ROUTE 85
(Sleeper Open Space to Dale/Heatherstone Way)

Additional Design Services Request
SCOPE OF SERVICES AND FEE PROPOSAL
for
Stevens Creek Trail, Reach 4-Segment 2: Project No. 10-42

PHASE II- DESIGN PHASE

SCOPE OF SERVICES

a) Re-design of a wider POC Bridge Section

The POC bridge width was initially proposed to be ten (10) feet wide similar to all existing Steven Creek Trail bridge and tunnel sections. The initial Type Selection Report submitted to Caltrans Structure dated August 12, 2009 proposed a 10-foot wide POC bridge deck. As part of the Permit Engineering Evaluation Report (PEER) process approval process, a Mandatory Design Exception Fact Sheet was required which indentifies nonstandard design feature of the POC geometrics as it related the Section 1000, Bikeway Design of the Caltrans Highway Design Manual (HDM). To partially offset the negative effects of the project's proposed nonstandard 50-foot curve (versus 155-foot curve radius) of the POC and required stopping sight distance, Caltrans required that the POC be widened and provide a 12-foot clear width (versus the 10-foot standard clear width).

Items of work related to the design change included:

- Revisions and re-submittal of the Type Section Report
- Revisions to the Structure General Plan and Cost Estimate

b) Modification to Dale/Heatherstone Area

With the wider POC width, the geometrics of the bridge approach ramp (switch back) from the POC (over Route 85) to Dale/Heatherstone area had to be re-designed. The revised approach ramp alignment had to clear the existing Route 85 soundwall/foundation and Dale/Heatherstone Way roadway, which required the existing sidewalk to be re-aligned to provide more area for the switch back. With the new sidewalk alignment and bridge columns moving closer to the travel-way, the design team evaluated protection of the columns from moving vehicles negotiating around the existing Dale/Heatherstone Way curve alignment. These modifications to the Dale/Heatherstone Way area included

realignment of the existing sidewalk and design of special sidewalk railing along Dale/Heatherstone under the approach ramp to protect the bridge columns/bridge soffit.

Additional items of work related to the design change included:

- Evaluation of protecting the proposed bridge columns from traffic
- Realign Dale/Heatherstone Way with new sidewalk area
- Review MBGR options and design of special sidewalk railing
- Revision to Layout, Utility/Drainage and PD Plans
- Preparation of new Construction Detail
- Coordination with Hill Associates

c) Enhanced Detailing of Bridge Aesthetics

The proposed POC was bridge was designed with additional enhancements to the aesthetics of the CIP concrete barrier/steel fence railing/pilaster, the Slab Bridge (Approach Ramps) chain link railing/ bridge bents/columns and bridge entry stone veneer pilaster features (at each end of the barrier/railing). At the Type Selection meeting, Caltrans commented the POC shall be designed with pedestrian lighting (even though the City's current policy does not provide lighting for trails). The concrete pilaster was designed to accommodate this new lighting.

Additional items of work included in the design enhancements:

- Coordination with Hill Associates with various bridge aesthetic designs
- Coordination with AEC on the POC lighting
- Structural detailing of the CIP concrete barrier and steel fence railing
- Structural detailing of the Slab bridge chain link railing
- Structural detailing of the rectangular bridge bents
- Structural detailing of the stone veneer pilasters
- Update Structure Plans and Specifications

d) Compliance of New NPDES General Construction Permit

The State Water Resources Control Board issued a new National Pollutant Discharge Elimination System (NPDES) General Permit effective July 1, 2010 for storm water discharges associated with construction and land disturbance activities. The revised permit had new criteria for the evaluation storm water discharge and increased requirements for storm water sampling and reporting during construction.

Additional items of work included:

- Review of the Storm Water Discharge requirements
- Preparation of the project-specific Risk Level Assessment (RL 1 to RL 3)
- Preparation of new Specifications and bid items
  -Rain Event Action Plan
  -Storm Water Annual Report
  -Storm Water Sampling and Analysis Day
- Preparation of additional quantities

FEE PROPOSAL

Compensation of the design scope changes for already provided for the final design has been computed on an hourly (time and materials) basis, based on the Charge Rate Schedule (Old Effective April 2, 2007) attached hereto with a not-to-exceed total fee, as follows:

a) Re-Design of Wider POC Section

Design Engineer	20.0 hrs @ $ 142.00/hr	$ 2,840
Sr. Bridge Engineer	24.0 hrs @ $ 192.00/hr	4,608
Structural Manager	12.0 hrs @ $ 236.00/hr	2,832
Engineering Manager	8.0 hrs @ $ 236.00/hr	1,888
Subtotal		$ 12,168

b) Modifications to Dale/Heatherstone Way

Design Engineer	24.0 hrs @ $ 142.00/hr	$ 3,408
Assistant Engineer	16.0 hrs @ $ 105.00/hr	1,680
Structural Manager	8.0 hrs @ $ 236.00/hr	1,888
Engineering Manager	10.0 hrs @ $ 236.00/hr	2, 360
Subtotal		$ 9,336

c) Enhanced Detailing of Bridge Aesthetics

Design Engineer	16.0 hrs @ $ 142.00/hr	$ 2,272
Sr. Bridge Engineer	30.0 hrs @ $ 192.00/hr	5,760
Structural Manager	12.0 hrs @ $ 236.00/hr	2,832
Subtotal		$ 10,864

d) Compliance of new NDPES General Permit

Design Engineer	40.0 hrs @ $ 142.00/hr	$ 5,680
Assistant Engineer	16.0 hrs @ $ 105.00/hr	1,680
Engineering Manager	4.0 hrs @ $ 236.00/hr	944
Subtotal		$ 8,304

TOTAL FOR PHASE II –DESIGN FEE: $ 40,672

SIGNET
Testing Labs

November 29, 2010

Rodrigo Macaraeg
City of Mountain View
Public Works Department
500 Castro Street, PO BOX 7540
Mountain View, CA 94039-7540

Subject: **STEVENS CREEK TRAIL REACH 4, SEGMENT 2 PHASE II: SLEEPER NEIGHBORHOOD ACCESS POINT TO DALE AVE/HEATHERSTONE WAY, PROJECT 10-42, REQUEST FOR SPECIAL INSPECTION PROPOSAL**

Dear Mr. Macareag:

Signet Testing Labs is pleased to present our proposal to the City of Mountain View for the Stevens Creek Trail Project. Signet will be able to meet and exceed all the requirements outlined in your RFP dated November 4, 2010 by providing the City with consistent inspection and testing staff that is certified and experienced in the required disciplines. This proposal will be valid for a minimum of ninety days.

Signet Testing Labs fully understands the responsibilities and duties required for this project as it relates to materials testing and inspection. We have a proactive culture of planning and anticipating project needs with an ultimate objective of addressing all project issues immediately, communicating and collaborating with all stakeholders, and most importantly assuring compliance with project requirements. Our dedicated and committed project team will work closely with all team members throughout the project, providing the highest levels of service and communication.

Please note that Signet Testing Labs, Inc. is subject and signatory to agreements with the International Union of Operating Engineers, AFL-CIO covering inspection and testing personnel. These agreements conform to the state prevailing wage requirements noted in Amended Code Section 1720 of Senate Bill 1999.

Signet Testing Labs looks forward to the opportunity to serve the City of Mountain View. I am personally committed to the highest level of customer service and will be available at your convenience to discuss any aspects of our proposal. On behalf of all the employees at Signet Testing Labs, Inc., we thank you for this opportunity and look forward to the possibility of working with you.

Respectfully submitted,
SIGNET TESTING LABS, INC.

Tim Rodriguez
Operations Manager

Budget Estimate to Provide
Special Inspections and Material Testing Services

I. FIELD AND LABORATORY SERVICES	Qty		Rate	Amount
A. Earthwork / Soils / Paving				
1. Field Compaction / Testing	15 day(s)	120 hour(s)	$80.00 /hr	$9,600.00
2. Trip Charge (within 50 miles of Office)		15 day(s)	$35.00 /day	$525.00
3. Moisture Density Curve - 6" Mold		2 each	$275.00 /ea	$550.00
4. Test Maximum Density (TMD - Set of 5)		1 each	$400.00 /ea	$400.00
5. Sieve Analysis - Total Sieve (to 1-1/2" max)		1 each	$190.00 /ea	$190.00
6. Bitumen Content (by ignition oven)		1 each	$200.00 /ea	$200.00
6. Sand Equivalent - Aggregate		1 each	$100.00 /ea	$100.00
B. Reinforced Concrete				
1. Rebar Placement Inspection	20 visit(s)	80 hour(s)	$75.00 /hr	$6,000.00
2. Concrete Placement Inspection	20 visit(s)	80 hour(s)	$75.00 /hr	$6,000.00
3. Rebar / Strand ID Sampling / Tagging	4 visit(s)	16 hour(s)	$75.00 /hr	$1,200.00
4. Trip Charge (within 50 miles of Office)		24 day(s)	$35.00 /day	$840.00
5. Material Sampling / Transportation	20 trip(s)	20 hour(s)	$75.00 /hr	$1,500.00
6. Concrete Compression Test - Cylinder		52 each	$35.00 /ea	$1,820.00
7. Sieve Analysis - Total Sieve (to 1-1/2" max)		20 each	$190.00 /ea	$3,800.00
8. Cleanness Value - 1" maximum		20 each	$150.00 /ea	$3,000.00
9. Sand Equivalent - Aggregate		20 each	$100.00 /ea	$2,000.00
C. Structural Steel				
1. Shop Welding Inspection	8 day(s)	64 hour(s)	$75.00 /hr	$4,800.00
2. Field Welding Inspection	8 day(s)	64 hour(s)	$75.00 /hr	$4,800.00
3. Field UT Testing	2 day(s)	16 hour(s)	$80.00 /hr	$1,280.00
4. Trip Charge (within 50 miles of Office)		18 day(s)	$35.00 /day	$630.00
D. Specialty Testing				
1. CIDH - Gamma Gamma Logging *Provided by Abe Construction Services - Quote Attached	5% Administrative Markup on Oustide Services			$27,930.00
2. Concrete Pile / Pier Inspection	10 day(s)	80 hour(s)	$75.00 /hr	$6,000.00
3. Field Technician / Inspector	5 day(s)	40 hour(s)	$75.00 /hr	$3,000.00
4. Trip Charge (within 50 miles of Office)		15 day(s)	$35.00 /day	$525.00
E. Engineering/Administration				
1. Project Manager		8 hour(s)	$125.00 /hr	$1,000.00
2. Final Affidavit		1 each	$250.00 /ea	$250.00
3. Mix Design Review		2 each	$250.00 /ea	$500.00
			Total Budget Estimate:	**$88,440.00**

SIGNET Testing Labs

PROFESSIONAL SERVICES

PROFESSIONAL SERVICES

1000	Expert Witness	250.00/hour
1005	Principal Engineer	185.00/hour
1010	Geotechnical Engineer	165.00/hour
1015	Project Engineer	145.00/hour
1020	Staff Engineer	125.00/hour
1025	Project Manager	125.00/hour
1030	Quality Control Manager	110.00/hour
1050	Field Technician / Inspector	75.00/hour
1035	Laboratory Technician	75.00/hour
1040	Technical Assistant, Draftsman	65.00/hour
1045	Administrative Services	65.00/hour
9910	Contract Labor	Cost + 20%

INSPECTION SERVICES

Soils / Asphalt Division:

2001	Field Compaction / Testing	80.00/hour
2104	Soils Observation	75.00/hour
2110	Material Sampling / Transportation	75.00/hour
2205	Pile / Pier Observation	75.00/hour
2102	AC Compaction Testing	80.00/hour
2105	AC Batch Plant Inspection / Sampling	75.00/hour
2111	AC Observation	75.00/hour

Concrete / Shotcrete Division:

3103	Concrete Placement Inspection	75.00/hour
3104	Concrete Sampling Only	75.00/hour
3105	Batch Plant Inspection	75.00/hour
3110	NS Grout Inspection / Sampling	75.00/hour
3123	Concrete Pile / Pier Inspection	75.00/hour
3501	DSA Shotcrete Placement Inspection	85.00/hour
3503	Shotcrete Placement Inspection	75.00/hour

Reinforcing / Strand Steel Division:

3102	Rebar Placement Inspection	75.00/hour
3609	Rebar / Strand ID Sampling / Tagging	75.00/hour
3208	PT Strand Stressing Inspection	75.00/hour

Masonry Division:

3701	DSA Continuous Masonry Inspection	85.00/hour
3703	Continuous Masonry Inspection	75.00/hour
3706	Masonry Brick / Veneer Inspection	75.00/hour
3710	Periodic Masonry Inspection	75.00/hour
3715	Masonry Sampling / Tagging	75.00/hour

Structural Steel Division:

5101	Field Welding Inspection	75.00/hour
5103	High strength bolting	80.00/hour
5104	Field UT Testing	80.00/hour
5105	Field MT Testing	80.00/hour
5106	Field PT Testing	80.00/hour
5201	Shop Welding Inspection	75.00/hour
5204	Shop UT Testing	80.00/hour
5202	Shop MT Testing	80.00/hour
5203	Shop PT Testing	80.00/hour

Fireproofing / Roof / Wood / Waterproofing Division:

6002	Fireproofing Density / Thickness Testing	75.00/hour
7003	Roofing Placement Inspection	80.00/hour
7004	Diaphragm Nailing Inspection	80.00/hour
7005	Shearwall Nailing Inspection	80.00/hour
7060	Waterproofing Inspection	80.00/hour
7070	Framing Inspection	80.00/hour

Specialty Testing Division:

9001	Proof Load / Torque Testing	80.00/hour
9006	Witness Dowel / Anchor Installation	75.00/hour
9008	Pachometer / Profometer Survey	80.00/hour
9011	Ground Penetrating Radar Survey (GPR)	200.00/hour
8161	Floor Flatness Survey (Dipstick)	155.00/hour
8220	Moisture Emission Testing Placement / Pick-Up	85.00/hour
7062	Moisture Content Testing	85.00/hour
9703	Coatings Inspection	85.00/hour
3108	Coring Technician, One Man	175.00/hour

Oversight Inspections:

4801	IOR Inspector of Record	125.00/hour
4802	Mechanical/Electrical/Plumbing Inspection	95.00/hour
4808	General Oversight Inspection	85.00/hour

(S9D)

SIGNET Testing Labs

LABORATORY TESTING

AGGREGATE

GRADING (MECHANICAL SIEVE ANALYSIS)

ASTM C136/CTM 202

4203 Coarse aggregate (to 1-1/2" maximum) 90.00/each
4204 Coarse aggregate (1-1/2"+) 175.00/each
4205 Total sieve (to 1-1/2" maximum) 190.00/each
4206 Fine aggregate 125.00/each

ASTM C88/CTM 214

4207 Sodium or magnesium sulfate soundness, fine or coarse, 5 cycles, per sieve size (minimum charge $300.00) 100.00/each

ASTM C40/CTM 213

4209 Organic impurities in sands for concrete 90.00/each

ASTM C29/CTM 212

4210 Unit weight (average of 3 tests) 100.00/each

ASTM C142

4211 Clay lumps in natural aggregate 120.00/each

ASTM D2419/CTM 217

4212 Sand equivalent tests 100.00/each

CTM 227

4213 Cleanness value - 1" maximum 150.00/each
4214 Cleanness value - 1-1/2" x 3/4" 300.00/each

ASTM C128, C127/CTM 206, 207

4215 Specific gravity & absorption, fine aggregate 150.00/each
4216 Specific gravity & absorption, coarse aggregate 150.00/each
4217 Absorption test only, fine or coarse aggregate 100.00/each

ASTM C131/CTM 211

4219 Los Angeles Rattler Test, 500 revolutions 175.00/each
4220 Los Angeles Rattler Test, 100 & 500 revolutions 200.00/each

ASTM C535

4221 Los Angeles Rattler Test for large size coarse aggregate, 1000 revolutions 300.00/each

ASTM C84/CTM 515

4222 Measuring mortar-making properties of fine aggregate 500.00/each

CTM 205

4225 Crushed particles 150.00/each

ASTM D4791

4224 Flat and Elongated Particles 150.00/each

4260 Acid Solubility 200.00/each
4224 Mohs Hardness 100.00/each

AASHTO T304

4245 Fine Aggregate Angularity 200.00/each

CTM LP-2

4246 Calculate Voids in Mineral Aggregate 50.00/each

SOIL MECHANICS

ASTM C136/CTM 202

4226 Sieve analysis pit run with #200 wash 160.00/each

ASTM D422/CTM 203

4227 Hydrometer analysis (does not include specific gravity) 250.00/each

ASTM D854/CTM 203

4228 Specific gravity of soils by hydrometer 155.00/each

ASTM D4318/CTM 204

4229 Plasticity index (Atterberg Limits) 200.00/each

CTM 229

4230 Coarse aggregates 250.00/each
4231 Fine aggregates 250.00/each

ASTM D2844/CTM 301

4232 "R" Value, California State Highway, untreated material 300.00/each
4233 "R" Value, California State Highway, cement, lime, or other additives laboratory mixed 325.00/each
4234 "R" Value, California State Highway, cement, lime, or other additives field sample 300.00/each

ASTM D1557/AASHTO T180

4235 Moisture/density curve 4" mold 250.00/each
4236 Moisture/density curve 6" mold 275.00/each
4208 Rock Correction of Moisture/density curve 50.00/each

CTM 216F/CTM 216G

4237 California impact, dry method 275.00/each
4238 California impact, wet method 275.00/each

4239 Moisture density checkpoint for identification of material 125.00/each

ASTM D1883

4240 California bearing ratio, 3 points without curve 600.00/each

ATM D569/D560/D1633

4241 Compressive strength of cement treated soil (soil/cement mixed and specimen fabricated in the laboratory) 150.00/each
4242 Compaction and compressive strength of cement treated soil from field sample 100.00/each
4243 CTB Design 5,200.00/each

CTM 373

4247 Unconfined Compressive Strength, Treated Soil at 1 Content 600.00/each

CTM 312

4250 Cement Treated Base (CTB) Design 2,000/each
4244 Compaction and compressive strength of CTB 150.00/each

ASTM D2216/CTM 226

4218 Moisture content of soils (by oven drying) 40.00/each

ASTM D854/CTM 209

4248 Specific Gravity of Soil 80.00/each

ASTM D1140

4202 #200 Wash on Soil 100.00/each

ASTM D2974

4256 Peat Moisture, Ash Content 150.00/each

CTM 643/AASHTO T-228

4401 Minimum Resistivity 150.00/each
4402 pH of Soil 75.00/each

(S9D)

SIGNET
Testing Labs

ASPHALTIC CONCRETE

CTM 304/366/305

4101 Stabilometer value of bituminous paving mixture, lab mixed 500.00/point
4102 Stabilometer value of premixed sample 350.00/each
4103 Swell test of bituminous mixture 130.00/each

CTM 304/307

4113 Moisture vapor susceptibility including stabilometer (2 specimens) 250.00/each

CTM 382/D6307

4129 Bitumen content of paving mixture (by ignition oven) 200.00/each
(subject to environmental disposal surcharge)
4104 Correction Factor 300.00/each

ASTM D5444/CTM 202

4105 Gradation of extracted sample including #200 wash 150.00/each

ASTM D1559

4106 Marshall test, premixed sample 3 specimens 300.00/each
4107 Marshall test, lab mixed 3 specimens 400.00/each
4109 Asphalt concrete design: Marshall Method - no aggregate 2,400.00/each
4112 Asphalt concrete design: Marshall Method - with aggregate 2,800.00/each
4110 Asphalt concrete design: Hveem method - no aggregate 2,200.00/each
4111 Asphalt concrete design: Hveem method - with aggregate 2,500.00/each

4138 Marshall RAP Mix Design with Aggregate Tests, AI MS-2 ..... 4000.00/each
4139 Caltrans RAP Mix Design with Aggregate Tests, CTM 367 ..... 3600.00/each

ASTM D2726/CTM 308

4114 Specific gravity of compacted sample 60.00/each

ASTM C136/CTM 202

4201 Sieve analysis of aggregates per "bin sample" 160.00/sample

CTM 308A/D1188

4115 Specific gravity of AC - paraffin coated 75.00/each

CTM 304/375

4128 Test maximum density (TMD), set of 5 specimens 400.00/each

ASTM D2041

4116 Rice Gravity 180.00/each

ASTM D1075

4133 Index of retained strength, pre-mix 500.00/each
4134 Index of retained strength, lab mix 780.00/each

ASTM D4867/AASHTO

4127 Tensile strength ratio, pre-mix 1,000.00/each
4117 Tensile strength ratio, lab mix 1,500.00/each

CTM 303

4119 CKE Coarse 150.00/each
4120 CKE Fine 150.00/each
4132 Filmstripping, CTM 302 ..... 175.00/each

4121 ATPB mix evaluation (grade, recombine, mix@2.0%,2.5%,3.0%) 320.00/each
4122 Open graded mix evaluation (grade, recombine, mix @ 3 oil percentages, filmstripping), CTM 368 ..... 440.00/each

CTM 370

4123 Moisture content of AC by microwave oven 75.00/each
4126 Index Retained Stability - lab mix 650.00/each
4125 Index Retained Stability - pre mix 500.00/each

4135 Calculate Voids Filled with Asphalt, CTM LP-3 ..... 30.00/each
4136 Calculate Dust Proportion, CTM LP-4 ..... 30.00/each
4137 Calculate Air Voids of HMA, CTM 357 ..... 20.00/each

CONCRETE / SHOTCRETE

ASTM C39/C567

3111 Compression tests, 6" diameter x 12" 35.00/each
3112 Unit weight on concrete cylinder 45.00/each

ASTM C495

3117 Lightweight insulating concrete (3" diameter x 6" cylinder) Compression tests 50.00/each

ASTM C469

9314 Static Young's modulus of elasticity in compression of 6" diameter x 12" cylindrical specimen 350.00/each
3119 Splitting tensile test, 6" diameter x 12" cylinder 60.00/each

ASTM C512

9315 Creep of Concrete in compression 3-months, set of 5 ..... 400.00/each
9316 Equilibrium Density ASTM C567 ..... 165.00/each

ASTM C42/C39

3118 Compression test concrete cores 55.00/each
3510 Shotcrete core compressive strength 95.00/each

ASTM C78/C293

3135 Flexural strength of concrete, 6" x 6" x 24" specimen 90.00/each

ASTM C157 (MODIFIED)

3115 Volume change of concrete, per set of 3 (drying shrinkage test), up to 28 days drying (excludes trial batch) 400.00/each

ASTM C109

3113 Compression Tests, 2" cube specimen 45.00/each

ASTM C192

3136 Laboratory Trial Batch (testing of specimens excluded) 500.00/each

MASONRY

ASTM C140

9401 Gross Area Compression 80.00/each
9405 Net Area Compression 90.00/each
9402 Absorption and moisture content (*) 90.00/each
9403 Linear shrinkage (rapid method) (*) 120.00/each

ASTM C426

9406 Linear shrinkage (ASTM C426) (*) 160.00/each
9408 Unit Weight (*) 55.00/each
9404 Dimensional measurements/Equivalent web thickness (*) 40.00/each

UBC Standard

3711 2" x 4" mortar cylinder 40.00/each
3713 grout sample 40.00/each
3708 composite prism 160.00/each

ASTM C1006

9407 Splitting tensile (*) 80.00/each
3717 Compression Test of Concrete Masonry Unit Core (CBC Title 24) 55.00/each
3718 Shear Test of Concrete Masonry Unit Core (CBC Title 24) 55.00/each

ASTM C531

9317 Linear Shrinkage and Coefficient of Thermal Expansion 500.00/each

3134 Sample Pick-up 70.00/each

(S9D)

SIGNET Testing Labs

GEOTECHNICAL DIVISION

INDEX TESTS

2221	Moisture Content D2216	33.00/each
	Moisture and Density	
2222	"U" type sample	42.00/each
2223	Piston Sample	42.00/each
2224	Pitcher/Shelby sample	45.00/each
	Liquid and Plastic Limits D4318	
2225	Method "B" (Dry prep)	160.00/each
2226	Method "A" (Wet prep)	160.00/each
	Particle Size Analysis	
2227	% passing #200 sieve D1140	75.00/each
2228	Sieve (from ½" to #200) D422	90.00/each
2229	Sieve (from 1" to #200) D422	110.00/each
2230	Sieve (from 2" to #200) D422	130.00/each
2231	Hydrometer test D422	250.00/each
2232	Specific Gravity D854	155.00/each
2233	Organic Content D2974	90.00/each
2234	Visual Classification	20.00/each
2235	Pinhole D4647	225.00/each
2286	pH Determination Soil/Lime D6276	130.00/each

COMPACTION TESTS:

	Standard Proctor D698	
2237	4" mold	250.00/each
2238	6" mold	275.00/each
	Modified Proctor D1557	
2239	4" mold	250.00/each
2240	6" mold	275.00/each
	One Point Compaction	
2241	4" mold	50.00/each
2242	6" mold	60.00/each
2243	California Impact Test (CTM 216)	275.00/each

HYDRAULIC CONDUCTIVITY:

	Rigid Wall	
2247	Falling head (specimen ht. ~1")	260.00/each
	Additional Costs	
2248	Additional stress level	72.00/each
2249	To remold stress specimen	52.00/each
	Flexible Wall D5084	
2250	Sandy soil	260.00/each
2251	Clayey soil	350.00/each
	Additional costs	
2252	Additional stress level	95.00/each
2253	To remold test specimen	100.00/each
2254	Compatibility	500.00/each

CONSOLIDATION PROPERTIES:

2256	Consolidation Test (1 cycle, 1 time rate) D2435	325.00/each
2257	For each additional Time-Rate curve	100.00/each
2258	To add unload-Reload cycle	26.00/each
2259	Trim to test from 3" sample	52.00/each
2260	To remold test specimen	100.00/each
	Expansion Test D4829	
2261	Expansion Index	130.00/each
2262	% Swell D5333	200.00/each
2263	% Collapse	129.00/each
2264	Shrink-Swell	165.00/each
2265	Expansion pressure	105.00/each

STRENGTH TESTS:

2267	Unconfined compression D2166	95.00/each
2268	Lab-vane shear	100.00/each
2269	Torvane/P.Penetrometer	20.00/each
	Triaxial Tests, per point (2.5" dia.)	
2270	Unconsolidated-Undrained UU D2850	125.00/each
2271	Unconsolidated-Undrained UU D2850 over 70psi	150.00/each
	Consolidated-Undrained with pore pressure	
2272	CU with PP D4767	450.00/each
2277	Staged TXCU with pore pressure	1,200.00/each
2273	Consolidated-Drained CD (sandy soil)	700.00/each
	Additional costs	
2276	To remold for test specimen	100.00/each
2275	For multi-stage, each additional stress level	300.00/each
	Direct Shear Tests, per point (2.5" diameter)	
2278	Unconsolidated-Undrained UU	95.00/each
2279	Consolidated-Undrained CU	115.00/each
2280	Consolidated-Drained CD (sandy soil) D3080	155.00/each
2281	Consolidated-Drained CD (clayey soil)	180.00/each
	Additional costs	
2282	Preparation for 3" diameter specimen	52.00/each
2283	To remold for test specimen	36.00/each
2284	For multi-stage, each additional stress level	52.00/each
2285	For each re-shear cycle	62.00/each
2244	Photos	30.00/each

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SIGNET Testing Labs

BRICK

ASMT C67

9409	Compression test	60.00/each
9411	Absorption test, saturation coefficient	70.00/each
9306	Modulus of rupture	55.00/each

CLAY ROOFING TILE

9418	UBC Standard 32-12 Breaking Load	50.00/each
9419	Water Absorption by 24-hour Oven Drying	
	Extra charge for cutting/preparation.	50.00/each

BUILT UP ROOFING

7026	Basic weight analysis	200.00/each
	ASTM D2829	
7025	Ply separation and complete roof analysis	500.00/each

FIREPROOFING

6004	Density of sprayed-on fireproofing	80.00/each
6010	E736 Cohesion/adhesion testing lid w/hook	90.00/each
6005	Moisture Content of Sprayed-on Fireproofing	50.00/each

STRUCTURAL STEEL AND CARBON STEEL

(Sample preparation and machining not included)

Tensile Testing - yield, ultimate, elongation

9510	To 1" material thickness, inclusive	60.00/each
9517	Over 1" up to 1-1/2" thickness	70.00/each
9539	Over 1-1/2" thickness	90.00/each
9519	End-Welded "Nelson" Studs	60.00/each

Cold Bend Testing:

9511	To 3/4" material thickness	35.00/each
9518	Over 3/4" up to 1-1/4" thickness	50.00/each

Flattening Tests on Pipe:

9508	To 10" diameter and 3/4" max. wall	60.00/each
9543	Guided Side, Root or Face Bends and T-Break	20.00/each
9601	Standard Welder Qualification Test	295.00/each
9605	Macroetch Examination	50.00/each

REINFORCING STEEL

Tensile Testing Full Section (yield/ultimate/elongation):

9501	Bar Size through #8	85.00/each
9502	#9 through #11	95.00/each
9503	#14	120.00/each
9504	#18	145.00/each
9552	Coupled rebar through #11	140.00/each
9553	Coupled rebar through #14	160.00/each
9554	Coupled rebar through #18	190.00/each
9509	Cold Bend Testing on Bar Size #11 and smaller	50.00/each
9529	Cold Bend Testing on Bar Size #14	60.00/each

MECHANICAL TESTING OF METALLIC PRODUCTS

(sample preparation and machining not included)

9544	Yield strength, tensile, elongation, R/A for 1/2" diameter or subsize reduced-section specimen	60.00/each

Hardness Testing (3 points/sample) (*)

9513	Rockwell / Brinell	40.00/each

Charpy Impact Testing (minimum of 3 specimens):

9520	Room Temperature	20.00/each
9521	To minus 100 degrees Fahrenheit	25.00/each
9522	To minus 150 degrees Fahrenheit	30.00/each

HIGH STRENGTH BOLTS, NUTS AND WASHERS

(Sample preparation and machining not included)

ASTM A325, A490 AND A449
Bolts: to 1-1/8" diameter inclusive

9526	Proof load	40.00/each
9514	Ultimate Tensile	50.00/each
9515	Hardness (Rockwell) (*) including sample preparation	85.00/each

Nuts: to 1-1/8" inclusive

9535	Proof load	30.00/each
9536	Hardness (Rockwell) (*) including sample preparation	85.00/each

Washers: all sizes

9536	Hardness (Rockwell) (*) including sample preparation	85.00/each
9516	Carburization Depth	60.00/each

ASTM F959

9537	Load Indicator Washers (LIW), proof load	50.00/each

SPECIALTY TESTING

Seven-wire strands, ASTM A416
For 1/4" through 1/2" strands

9304	Breaking strength only	200.00/each
9305	Yield strength, breaking strength & elongation	250.00/each

ASTM A90

9700	Weight of galvanized coating (subject to environmental disposal)	150.00/each
9701	Other materials-aluminum, brass, bronze, fiberglass, etc	65.00/each
8257	Vapor Emission Test Kit	60.00/each
9903	Calibration of hydraulic ram system	250.00/each
9905	Laboratory Vendor	Cost + 20%

For all test specimens that require material preparation (cutting, machining, etc.). An additional charge will be made to the above schedule.

Additional premium charges will be made for all rush work in excess of 8 hours, night shifts, holidays, and weekends.

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Abe Construction Services, Inc.

2230 Lariat Lane, Walnut Creek, CA 94596 Phone: 925-944-6363 Fax:925-476-1588 Email: SA@AbeEngineering.com

November 23, 2010

Estimate for CIDH Pile Testing Services

Stephens Creek Tril POC
Mountainview, CA

Attn:

Scope: Perform GGL on 83 CIDH piles @ 24" x 50 ft with 2 logs/pile at 10 Locations.
Assume testing 8 piles/day on average, 10 mobilizations and 10 reports.
Actual work performed billed per following rate schedule.

QTY.	DESCRIPTION	RATE / UNIT	COST
GGL FIELD TESTING			
166	GGL or CSL Charge for logs up to 50 ft long (Minimum field work charge is $1200/day)	$100.00 /log	$16,600.00
0	Min Field Charge	$1,200.00 /day	$0.00
REPORT / ANALYSIS/ ENGINEERING CHARGES			
10	Test Report submittals	$500.00 / each	$5,000.00
0	Engineer for meetings,standby at site, or contract review	$200.00 /hr	$0.00
TRAVEL / MOB EXPENSES			
10	Equipment Mobilization/vehicle/ travel costs	$500.00 / day	$5,000.00
		Total Estimate	**$26,600.00**

Notes & Terms:

a) At least 7 days notice; the job may then be postponed with 24 hrs notice if necessary without charges. If we receive less than 7 days notice, additional mobilization expenses may be negotiated.

b) Standby charge of $200/ hr will be charged if engineer must wait for access to piles for testing

c) Working conditions for our engineer which conform with OSHA requirements AND SAFE ACCESS TO PILES
This quote is valid for 90 days.

d) All PVC inspection tubes **must** be BLOWN DRY PRIOR TO TESTING AND SOUNDED WITH A DUMMY PROBE TO ENSURE THE TUBES ARE CLEAR AND STRAIGHT. THE DUMMY PROBE MUST BE A 50-INCH LONG BY 1.25-INCH PIECE OF STEEL PIPE AND PASS FREELY FROM TOP TO BOTTOM OF EACH TUBE.

e) ACS, Inc, carries general liability insurance which is included in thist estimate. ACS is not providing engineering services and does not provide professional E&O insurance. Client agrees that ACS's liability is limited to amount of total fees paid to ACS for this project.

Please sign below indicating you accept the above rates and terms and agree to pay in full within 30 days of receipt of invoice. Please return signed qote by fax.

This quote is valid for 90 days.

Company _____ Date _____

Print name & title _____ Signature _____

CITY OF MOUNTAIN VIEW
MEMORANDUM

DATE: December 8, 2010

TO: Urban Forestry Board

FROM: Robert Kagiyama, Principal Civil Engineer

SUBJECT: STEVENS CREEK TRAIL—SLEEPER AVENUE TO DALE AVENUE/ HEATHERSTONE WAY—HERITAGE TREE REMOVAL AND MITIGATION, PROJECT 10-42

RECOMMENDATION

Review the Heritage tree removal mitigation for two street trees and forward a recommendation to the City Council approving a tree planting mitigation of 1:1 replacement with 15-gallon trees for the Stevens Creek Trail—Sleeper Avenue to Dale Avenue/Heatherstone Way, Project 10-42.

FISCAL IMPACT

The cost of removing the two trees and replanting two mitigation trees are included in the $5 million construction budget in Project 10-42. The $5 million budget includes approximately $1.7 million in State and regional grant funds, including an $800,000 State River Parkways grant.

BACKGROUND

On November 18, 2009, the Urban Forestry Board approved a 3:1 tree planting mitigation for the removal of three Heritage trees for the construction of the Stevens Creek Trail—Sleeper Avenue Neighborhood Access Point over Highway 85 to the intersection of Dale Avenue and Heatherstone Way.

On July 27, 2010, the Council approved the Plans and Specifications, authorized staff to advertise the project for bids after receipt of the Caltrans encroachment permit and approved the removal of two Heritage trees and the Urban Forestry Board recommended mitigation measure of 3:1 replacement with 15-gallon trees. In early November, the City received the Caltrans encroachment permit and began the bid advertisement period on November 10, 2010.

In advance of constructing the pedestrian switchback structure on Dale Avenue/ Heatherstone Way (Attachment 1), PG&E will need to relocate a wooden utility pole and overhead electrical line, which is in conflict with constructing the proposed structure. Recently, PG&E informed the City that it plans to relocate the wooden pole to the other side of the street and rewire their overhead electrical lines from the west side to the new pole. The new electrical line will cross through the trunk line of two Heritage size Raywood ash street trees (Attachment 2).

Public Works staff and the City Arborist held a site meeting with PG&E. PG&E requires a 15' clearance on both sides of the electrical line. The location of the two street trees do not meet the clearance requirement and will interfere with PG&E's ability to maintain the line. There is one tree that is slightly skewed from the proposed electrical line but any attempt to heavily prune the tree as a means to save it is not practicable. The City Arborist concurred with PG&E's assessment that both trees will need to be removed before relocating the overhead line.

Staff is recommending the removal of the two Raywood ash street trees and is requesting a mitigation measure of 1:1 replacement with a 15-gallon-sized red horse chestnut tree. Because the new trees will be replanted in the same area and there is very limited space within the public right of way, a 1:1 replacement is recommended. The proposed tree species complies with PG&E's planting list and will grow no taller than 25' at maturity or well below and clear of the overhead electrical wires.

After PG&E reestablishes the overhead electrical line, the contractor will replant two 15-gallon trees as part of the Stevens Creek Trail construction. The City's Roadway Landscape Division will add the two trees to their water truck schedule and will continue to water the trees until the trees are established.

Overall, the trail construction will require the removal of 19 trees including 4 Heritage trees, and will plant a total of 111 trees including the 2 additional mitigation trees and 60 box-size trees (45—24" box, 11—48" box and 4—60" box). Although the November 2009 Urban Forestry Board recommended mitigation measure of 3:1 replacement with 15-gallon trees was later approved by Council, these mitigation trees will actually consist of 48" and 60" box-size trees and will be planted between the northerly end of the pedestrian switchback structure and the nearby apartment complex.

On January 11, 2011, Council is expected to take action to award a construction contract for the Stevens Creek Trail. Construction will begin in February 2011 and take approximately one year to complete. By fall 2011, staff will return to the Parks and Recreation

Commission to provide an update on the construction activities and completion schedule.

Prepared by:

Robert Kagiyama
Principal Civil Engineer

Approved by:

David A. Muela
Community Services Director

RK/7/PWK
909-11-18-10M-E^

Attachments
1. Rendering
2. Photo Rendering of Conflict
3. Tree Removal Notice

cc: Mr. Chris Hughes, PG&E
10900 North Blaney Avenue
Cupertino, CA 95014

Ms. Marilou Ayupan
Mark Thomas & Company
1960 Zanker Road
San Jose, CA 95112

PWD, PCE—Kagiyama, POSM, ACE—Chen, Project File/c